

Listing of the Claims:

Below is a listing of all claims using a strikethrough and underlining to show changes.

1. (original) A wavelength selective optical device comprising:

5 a first graded index rod lens having a first end surface thereof on which a divergent light is incident, and a second end surface thereof from which a parallel light beam is emitted; and

10 an optical filter arranged to face to the second end surface of the first graded index rod lens so that the parallel light beam emitted from the first graded index rod lens is incident on the optical filter;

wherein a refractive index distribution contrast of the first graded index rod lens is adjusted such that a wavelength range of the light which is reflected or transmitted by the optical filter which is tuned within the desired range.

15 2. (original) A wavelength selective optical device according to claim 1, wherein the optical filter is a multi-layered optical interference filter, and

the refractive index distribution constant of the first graded index rod lens is adjusted such that a representative wavelength of the light reflected or transmitted by the optical filter is tuned within a desired range.

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3. (original) A wavelength selective optical device according to claim 1, wherein the optical filter is formed directly on the second end surface of the first graded index rod lens as a film.

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4. (withdrawn) A wavelength selective optical device, according to claim 1, further comprising a cylindrical member wherein the first graded index rod lens is inserted from one end portion of the cylindrical member so that the first graded index rod lens is fitted without clearance to the cylindrical member, and the optical filter is provided on another end portion of the cylindrical member.

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5. (currently amended) A wavelength selective optical device according to claim 1,
wherein in the first graded index rod lens is selected from among a plurality of graded
index rod lens groups having various different refractive index distribution constants.

5 6. (original) A wavelength selective optical device comprising:
 a first optical fiber in which optical signals with a plurality of multiplexed
 wavelengths is propagated;

10 a first graded index rod lens having a first end surface thereof on which a light
 emitted from the end surface of the first optical fiber is incident, and a second end surface
 thereof from which a parallel light beam is emitted;

 an optical filter arranged to face to the second end surface of the first graded
 index rod lens so that the parallel light beam emitted from the first graded index rod lens
 is incident on the optical filter; and

15 a second optical fiber arranged on the side of the first end surface of the first
 graded index rod lens to which a light reflected by the optical filter is coupled through the
 first graded index rod lens;

 wherein a refractive index distribution constant of the first graded index rod lens
 is adjusted such that a wavelength range of the light reflected by the optical filter is tuned
 within a desired range.

20 7. (original) A wavelength selective optical device according to claim 6, further
 comprising a second graded index rod lens having a first end surface thereof facing to the
 optical filter, and

25 a third optical fiber arranged on the side of a second end surface of the second
 graded index rod lens to which a light transmitted from the optical filter is coupled
 through the second graded index rod lens.

 8. (original) A wavelength selective optical device according to claim 6, wherein
 the optical filter is a multi-layered optical interference filter, and

the refractive index distribution constant of the first graded index rod lens is adjusted such that a representative wavelength of the light reflected by the optical filter is tuned within a desired range.

5 9. (original) A wavelength selective optical device according to claim 6, wherein the optical filter is formed directly on the second end surface of the first graded index rod lens as a film.

10 10. (withdrawn) A wavelength selective optical device, according to claim 6, further comprising a cylindrical member wherein the first graded index rod lens is inserted from one end portion of the cylindrical member so that the first graded index rod lens is fitted without clearance to the cylindrical member, and the optical filter is provided on another end portion of the cylindrical member.

15 11. (original) A wavelength selective optical device according to claim 6, wherein the first graded index rod lens is selected among a plurality of graded index lens groups having various different refractive index distribution constants.

12. (currently amended) A wavelength selective optical device comprising:
20 a first optical fiber in which optical signals with a plurality of multiplexed wavelengths is propagated;
 a first graded index rod lens having a first end surface thereof on which a light emitted from an end surface of the first optical fiber is incident, and a second end surface thereof from which a parallel light beam is emitted;
25 an optical filter arranged to face the second end surface of the first graded index rod lens so that the parallel light beam emitted from the first graded index rod lens is incident on the optical filter;
 a second graded index rod lens having a first end surface thereof facing to the first optical fiber; and

a second optical fiber arranged on the side of a second end surface of the second graded index rod lens to which a light transmitted from the optical filter is coupled through the second graded index rod lens,

wherein a refractive index distribution constant of the first graded index rod lens
5 is adjusted such that a wavelength range of the light transmitted from the optical filter is tuned within a desired range.

13. (original) A wavelength selective optical device according to claim 12,
wherein the optical filter is a multi-layered optical interference filter, and

10 the refractive index distribution constant of the first graded index rod lens is adjusted such that a representative wavelength of the light transmitted from the optical filter is positioned within a desired range..

14. (original) A wavelength selective optical device according to claim 12,
15 wherein the optical filter is formed directly on the second end surface of the first graded index rod lens as a film.

15. (original) A wavelength selective optical device according to claim 12,
wherein the first graded index rod lens is selected among a plurality of graded index rod
20 lens groups having various different refractive index distribution constants.

16-20. Canceled